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	Application No.	Applicant(s)
Notice of Allowability	10/501,706	FUKUMOTO ET AL.
	Examiner	Art Unit
	Minh D. A	2821
The MAILING DATE of this communication appearable claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R	(OR REMAINS) CLOSED or other appropriate com IGHTS. This application is	in this application. If not included munication will be mailed in due course. THIS
1. This communication is responsive to <u>7/16/04</u> .		
2. X The allowed claim(s) is/are <u>1-9</u> .		
 Acknowledgment is made of a claim for foreign priority ur a)	e been received.	
2. Certified copies of the priority documents have	• •	
Copies of the certified copies of the priority do	cuments have been receiv	ved in this national stage application from the
International Bureau (PCT Rule 17.2(a)).		
* Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE"		ile a reply complying with the requirements
noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	IENT of this application.	
 A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give 		
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.	
(a) I including changes required by the Notice of Draftspers	on's Patent Drawing Revi	ew (PTO-948) attached
1) 🗌 hereto or 2) 🔲 to Paper No./Mail Date		•
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date		·
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t	.84(c)) should be written or he header according to 37	the drawings in the front (not the back) of CFR 1.121(d).
 DEPOSIT OF and/or INFORMATION about the depo- attached Examiner's comment regarding REQUIREMENT 		
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5 🖂 Notice of	Informal Patent Application
 Notice of References Cited (F10-692) D Notice of Draftperson's Patent Drawing Review (PT0-948) 	 -	Summary (PTO-413),
3. ⊠ Information Disclosure Statements (PTO/SB/08),	Paper N	o./Mail Date 's Amendment/Comment
Paper No./Mail Date 7/16/04 4. Examiner's Comment Regarding Requirement for Deposit	8. 🛛 Examiner	's Statement of Reasons for Allowance
of Biological Material	9.	·
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	•	SHIL-VIBBOCK SHIL-CHAO CHEN PRIMARY EXAMINER

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Allowable Subject Matter

1. Claims 1-9 are allowed.

The following is an examiner's statement of reasons for allowance:

Prior art does not teach that, a triangular wave signal generation circuit for generating a triangular wave signal; a slow-start circuit for generating a slow-start signal that rises slowly during a startup of said load; a PWM control signal generation circuit for generating a PWM control signal, said PWM control signal generation circuit adapted to receive said triangular wave signal, current detection signal, voltage detection signal, and slow-start signal; generate an error signal based on said current detection signal and voltage detection signal in combination with all limitations recited in independent claim 1.

Prior art does not teach that, a slow-start bock connected to an external startup capacitor, for generating a slow/start signal that rises slowly during a startup of said load; and a PWM control signal generation circuit for generating a PWM control signal, said PWM control signal generation circuit adapted to receive said triangular wave signal, current detection signal generated by detecting the current flowing through the load, voltage detection signal generated by detecting the voltage impressed on the load, and slow-start signal; generate an error signal based on said current detection signal and voltage detection signal; automatically select either one of said error signal and said slow start signal based on the magnitudes of said signals; and compare the selected signal with said triangular wave signal to generate said PWM control signal, and wherein said semiconductor switch circuit is switched on and

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off based on the PWM control signal in combination with all limitations recited in independent claim 6.

The remaining dependent claims 2-5, 7-9 are allowable for at least above reason.

Prior art made of record and not relied upon is considered pertinent to applicant's disclosure. None of record prior arts stands alone or combination with the others discloses all limitations required in claim invention.

Citation of relevant prior art

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Prior art Kouno et al (U.S. Patent No. 6,275,325) discloses an inverter and method for driving a plurality of cold cathode tubes in parallel.

Prior art Okazako et al (U.S. Patent No. 5,539,303) discloses a method for monitoring atmospheric pressure glow discharge plasma using current pulse count.

Prior art Deng et al (U.S. Patent No. 6,008,589) discloses a single –switch, high power factor AC-to-AC power converters.

Prior art Sase et al (U.S. Patent No. 6,377,480) discloses a soft start circuit for switching power supply.

Inquiry

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Minh Dieu A whose telephone number is (571) 272-1817. The examiner can normally be reached on M-F (5:30 AM-2:45 PM).

If attempts to reach the examiner by telephone are unsuccessful, the

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examiner's supervisor, Owens Douglas W can be reached on (571) 272-1662. The

fax phone number for the organization where this application or proceeding is

assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for published

applications may be obtained from either Private PAIR or Public PAIR. Status

information for unpublished applications is available through Private PAIR only. For

more information about the PAIR system, see http://pair-direct.uspto.gov. Should you

have guestions on access to the Private PAIR system, contact the Electronic Business

Center (EBC) at 866-217-9197 (toll-free).

Examiner

Minh A

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2/11/07

Shik-Ilao CL Shihalao Chen Dinara eyaminer

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